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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/420,772	10/19/1999	OSAMU YAMADA	862.3073	3279	
5514	7590 04/22/2004	04/22/2004		EXAMINER	
	FITZPATRICK CELLA HARPER & SCINTO			LE, BRIAN Q	
30 ROCKEFELLER PLAZA NEW YORK, NY 10112			ART UNIT	PAPER NUMBER	
	,		2623	\ 2	
			DATE MAILED: 04/22/2004	4 /8	

Please find below and/or attached an Office communication concerning this application or proceeding.

3	Application No.	Applicant(s)				
•	09/420,772	YAMADA ET AL.				
Office Action Summary	Examiner	Art Unit				
	Brian Q Le	2623				
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet with the	correspondence address				
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a rep - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailir earned patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a reply be tilly within the statutory minimum of thirty (30) darwill apply and will expire SIX (6) MONTHS from e, cause the application to become ABANDONE.	mely filed ys will be considered timely. the mailing date of this communication. ED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 09 J	lanuary 2004.					
	· · · · · · · · · · · · · · · · · · ·					
3) Since this application is in condition for allowa	· _					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4) ☐ Claim(s) 1.3.4.7.12-16 and 18-20 is/are pendiday Of the above claim(s) is/are withdray 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1.3.4.7.12-16 and 18-20 is/are reject 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or partication Papers.	ed.					
Application Papers						
9) ☐ The specification is objected to by the Examina 10) ☐ The drawing(s) filed on 19 October 1999 is/are Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) ☐ The oath or declaration is objected to by the E	e: a)⊠ accepted or b)⊡ objected drawing(s) be held in abeyance. Se ction is required if the drawing(s) is ob	e 37 CFR 1.85(a). pjected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents. 2. Certified copies of the priority documents. 3. Copies of the certified copies of the priority documents. * See the attached detailed Office action for a list. 	ts have been received. ts have been received in Applicat prity documents have been receiv uu (PCT Rule 17.2(a)).	ion No ed in this National Stage				
Attachment(s)						
I) ☐ Notice of References Cited (PTO-892)	4) 🔲 Interview Summary	(PTO-413)				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) B) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	Paper No(s)/Mail D					

Art Unit: 2623

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 01/09/2004 has been entered.

Response to Amendment and Arguments

- 2. Applicant's amendment filed 01/04/2004 has been entered and made of record.
- 3. Applicant's arguments with regard to claims 1, 3-4, 7, 12-16, and 18-20 have been fully considered, but are not considered persuasive because of the following reasons:

Regarding claims 1, 16 and 19, the Applicant argues that Miyashita does not teach the generating a saturation conversion characteristic on the basis of first conversion parameter, for the low-saturation side, and a second conversion parameter for the high-saturation side. The Examiner respectfully disagrees. Miyashita clearly teaches this broad limitation at column 6, lines 48-62; column 8, lines 3-15 and 37-55 and column 10, lines 25-44. Miyashita teaches the data manipulation of parameters for color correction which including hue or saturation (column 8, line 9) for whether at low or high-saturation. Thus, it would have been clear that Miyashita teaches a first conversion parameter, for the low-saturation side, and a second conversion parameter for the high-saturation side.

Thus, the rejections of all of the claims are maintained.

Art Unit: 2623

Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.
- 5. The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) do not apply to the examination of this application as the application being examined was not (1) filed on or after November 29, 2000, or (2) voluntarily published under 35 U.S.C. 122(b). Therefore, this application is examined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).
- 6. Claims 1, 3, 4, 7, 12-16, and 18 20 are rejected under 35 U.S.C. 102(e) as being anticipated by Miyashita U.S. Patent No. 6,031,543.

Referring to claim 1, Miyashita teaches an image processing apparatus comprising:

Saturation calculation (saturation correction) unit (FIG. 16) arranged to calculate saturation information of an image;

A first setting unit, arranged to set a first conversion parameter for a low-saturation side; (column 6, lines 48-62; column 8, lines 3-15 and 37-55 and column 10, lines 25-44) (Miyashita teaches the data manipulation of parameters for color correction which including hue or saturation (column 8, line 9) for whether at low or high-saturation).

A second setting unit, arranged to set a second conversion parameter for a high-saturation side; (column 6, lines 48-62; column 8, lines 3-15 and 37-55 and column 10, lines 25-44)

Art Unit: 2623

(Miyashita teaches the data manipulation of parameters for color correction which including hue or saturation (column 8, line 9) for whether at low or high-saturation).

A saturation conversion characteristic generating unit arranged to generate a saturation conversion characteristic on the basis of the first conversion parameter, for the low-saturation side, and the second conversion parameter, for the high-saturation side (column 8, lines 3-29);

A saturation conversion unit (FIG 44 and FIG 45) arranged to convert the saturation (column 3, line 40-44) of the image on the basis of the saturation conversion characteristic.

It is inherent that saturation calculation also is saturation correction especially as demonstrated in FIG 16, a saturation correction requires analysis of color and colors saturation conversion.

For claim 3, Miyashita also teaches the apparatus further comprising a conversion parameter determination unit, arranged to determine the first conversion parameter, for the low-saturation side, and the second conversion parameter, for the high-saturation side based on the saturation information (column 8, lines 3-65).

Referring to claim 4, Miyashita teaches the apparatus further comprising:

An instruction unit arranged to accept an instruction input by a user (column 3, line 58-60; column 4, lines 1-26) in order to determine the first conversion parameter, for the low-saturation side, and the second conversion parameter, for the high-saturation side (column 10, lines 22-29).

Referring to claim 7, Miyashita teaches the apparatus wherein the saturation conversion characteristic exhibits a monotonous increase (column 11, line 33-46).

Referring to claim 12, Miyashita discloses the apparatus further comprising:

Art Unit: 2623

A detection unit arranged to detect a color distribution of the image (FIG 6, FIG 7 and column 5, line 54);

A generation unit arranged to generate gradation correction information (column 8, line 44-46) of the image on the basis of the color distribution; and

A gradation correction unit arranged to perform gradation correction of the image on the basis of the gradation correction information (column 8, line 22-29 and column 8, line 52-55).

For claim 13, Miyashita also teaches the apparatus wherein said saturation conversion unit (FIG 44 and FIG 45) performs saturation conversion on an image which has undergone the gradation correction (column 9, line 21-24) by said gradation correction unit. Also it is inherent that gradation correction is required during the gradation conversion process which is clearly described by Miyashita.

Referring to claim 14, Miyashita further teaches the apparatus wherein said generation unit comprises:

A highlight calculation unit (FIG 25, FIG 26A, FIG 26B, FIG 26E and FIG 26F) arranged to calculate highlight area information (column 9, line 25-31) of an image on the basis of the color distribution; and

A white balance calculation unit (FIG 28-115 and 117) arranged to calculate white balance information on the basis of the highlight area information (FIG 29-115 and 117, FIG 30-115 and 117, FIG 31-115 and FIG 32-115) and a predetermined highlight value (column 10, line 24-32, "HL" parameters), and wherein

Said gradation correction unit corrects gradation of the image on the basis of the white balance information and the highlight value (column 10, line 25-44).

Art Unit: 2623

It is inherent that highlight and intensity are the white balance calculation. Without these two parameters, white balance calculation can not be processed properly.

Referring to claim 15, Miyashita discloses the apparatus wherein said generation unit comprises:

A shadow calculation unit arranged to calculate shadow information of an image (FIG 25, FIG26C, FIG26D-FIG26F, FIG28-32); and

A black balance calculation unit (FIG 25, FIG26C, FIG26D-FIG26F and FIG28-116 and 117) arranged to calculate black balance information on the basis of the shadow area information (FIG 28, 116-117; FIG 29,116-117; FIG 30, 116-117) and a predetermined shadow value (column 10, line 24-32, "SD" parameters), wherein

Said gradation correction unit corrects gradation of the image on the basis of the black balance information and the shadow value (column 10, line 25-44).

It is inherent that shadow and the intensity are also the black calculation. Without these two significant means, black balance calculation can not be determined.

For claims 16 and 18, please refer back to the explanation of claims 1 and 3.

For claim 19, please refer to claim 1 for all the limitation. Furthermore, Miyashita discussed the concept of recording medium (storage system) (column 1, 64-67) that allow program codes (software or executable program) (column 3, line 62-63) to allow user to control the image processing method. Therefore, it is inherent to have a recording medium comprising program codes of an image processing method comprises the limitation of claim 1.

Regarding claim 20. please refer back to claim 4 for the explanation.

Art Unit: 2623

Contact Information

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Brian Q Le whose telephone number is 703-305-5083. The examiner can normally be reached on 8:30 A.M - 5:30 P.M.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Amelia Au can be reached on 703-308-6604. The fax phone numbers for the organization where this application or proceeding is assigned are 703-872-9306 for regular communications and 703-872-9306 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-305-3900.

BL April 19, 2004

> SAMIR AHMED PRIMARY EXAMINER